

10 CSR 10-5.455 Control of Emission from Solvent Cleanup Operations

(1) Definitions of certain terms specified in this rule may be found in 10 CSR 10-6.020.

(2) Applicability.

(A) This rule shall apply throughout St. Louis City and the Counties of Jefferson, St. Charles, Franklin, and St. Louis.

(B) This rule shall apply to any person who performs or allows the performance of any cleaning operation involving the use of a volatile organic compound (VOC) solvent or solvent solution. The provisions of this rule shall not apply to any stationary source at which cleaning solvent VOCs are emitted at less than five hundred (500) pounds per day.

(C) The following cleaning operations are not subject to the provisions of this rule:

1. Cold cleaner;
2. Open top vapor degreaser;
3. ConveyORIZED cold cleaner;
4. ConveyORIZED vapor degreaser;
5. Nonmanufacturing area cleaning. Nonmanufacturing areas include cafeterias, laboratories, pilot facilities, restrooms, and office buildings;
6. Cleaning operations for which there has been made a best available control technology (BACT), reasonably available control technology (RACT), or lowest achievable emission rate (LAER) determination; and
7. Cleaning operations which are subject to the Aerospace National Emission Standards for Hazardous Air Pollutants Standards (NESHAP) source category.

- (3) General Provisions. Any person performing any industrial cleaning operation, not excluded in subsection (2)(B) or (C), involving the use of a VOC solvent or solvent solution shall demonstrate a thirty percent (30%) reduction in plant-wide industrial VOC cleaning solvent emissions as described in section (4) of this rule by May 31, 1996.
- (4) Solvent Emission Reduction. The following provisions apply to any stationary source subject to section (3) of this rule:
 - (A) A thirty percent (30%) emission reduction shall be based on emissions in 1990 and in 1995. If the owner/operator demonstrates that either 1990 or 1995 is not a representative production year, then a demonstration shall be made to the agency that another year is more representative for purposes of comparison or for prorating cleaning solvent usage. The following applicable documentation of actions and associated emission reductions shall be sent to the department for approval by March 1, 1996:
 - 1. Changes in cleaning solvents used;
 - 2. Changes in work practices; and
 - 3. Changes in equipment or processes; and
 - (B) The changes described in subsection (4)(A) of this rule shall remain in effect until other changes resulting in greater, or equal, emission reductions from the cleaning operations are implemented.
- (5) Recordkeeping. The person responsible for industrial cleaning operations at an affected facility seeking to comply with section (3) of this rule shall keep records of information sufficient for the calculation of emissions from each Unit Operation System (UOS) from the use of industrial cleaning solvents. A UOS consists of an industrial cleaning operation around which all organic solvent usage, disposal, and fugitive losses may be calculated using a simple mass

balance equation. As an aid to compliance with this section, records for industrial cleaning UOSs may include one (1) or more of the following:

- (A) Engineering drawings or sketches of all UOSs used to define industrial cleaning operations within the facility, including a system boundary, organic solvent input(s), organic solvent output(s), and organic solvent evaporative loss points. These drawings shall include each of the following:
 - 1. Labelled boxes within the system boundary which describe all components of the UOS, including any virgin solvent containers, solvent applicators, used solvent containers, and the surface being cleaned;
 - 2. Numbered or lettered arrows depicting liquid and/or evaporative solvent flow, accurate with respect to relative mass flow rates in and out of the system boundary; and
 - 3. Arrows depicting all organic solvent pathways within the system boundary;
- (B) One (1) accurate mass balance equation for each UOS depicted in subsection (5)(A) of this rule. Each equation shall have variables consistent with those used to define the corresponding UOS and shall be solved for total VOC emissions for the UOS; and
- (C) Any assumptions or approximations made in defining the UOSs.

10 CSR 10-5.455

EPA Rulemakings

CFR: 40 C.F.R. 52.1320(c)

FRM: 65 FR 8060 (2/17/00)

PRM: 61 FR 10968 (3/18/96)

State Submission: 11/12/99

State Final: 10 C.S.R. 10-5 (2/28/97)

APDB File: MO-76

Description: This rule provides controls on solvent emissions from solvent cleanup operations in the St Louis nonattainment area.

[illegible]

Difference Between the State and EPA-Approved Regulation

None.